Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Project Division

Name of work: Drilling of Borewells and Providing RO Plants at Dwarakanagara, Palanahalli, Thirumenahalli and Srirampura in Ward No:05

							Estimate cost, Rs		**135.00 lakhs**	
DESCRIPTION OF WORKS		**DIMENSIONS**					**QUANTITY**	**UNIT**	**RATE**	**AMOUNT**
		NO		**L**	**B**	**D**				
				Buiding works						
KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5										
		1	1	4.85	1.00	1.00	4.85			
		1	2	0.90	1.00	1.00	1.80			
Basic	283.00						6.65	cum	305.64	**2,032.51**
add 8% Area wt	22.64									
Total	305.64									
KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 ***P.NO.12.I.NO.4.3***										
		1	1	4.85	0.90	0.10	0.44			
		1	2	0.90	0.90	0.10	0.16			
Flooring concrete		1	1	3.90	2.37	0.10	0.92			
front step portion		1	1	2.82	0.45	0.10	0.13			
Basic	4,867.00						1.65	cum	5,256.36	**8,671.42**
add 8% Area wt	389.36									
Total	5,256.36									
KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. ***KBS 5.1.13 P.NO.23.I.NO.5.6***										
		1	1	4.85	0.75	0.20	0.73			
		1	1	4.85	0.60	0.40	1.16			
		1	1	4.85	0.45	0.20	0.44			
		1	2	0.87	0.75	0.20	0.26			
		1	2	0.87	0.60	0.40	0.42			
		1	2	0.87	0.45	0.20	0.16		-	
front step portion		1	1	2.82	0.45	0.20	0.25			
Basic	4,187.00						3.42	cum	4,521.96	**15,451.54**
add 8% Area wt	334.96									
Total	4,521.96									
KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. ***KBS 5.1.13 P.NO.23.I.NO.5.9***										
front step portion		1	1	4.85	0.45	0.30	0.65			
Basic	5,005.00	1	2	0.87	0.45	0.30	0.23			
add 8% Area wt	400.40	1	1	2.82	0.45	0.30	0.38			
Total	5,405.40						1.27	cum	5,405.40	**6,866.75**
KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates :@0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 ***P.NO.12.I.NO.4.6***										
		1	1	4.85	0.45	0.10	0.22			
		1	2	0.87	0.45	0.10	0.08			
front step portion		1	1	2.82	0.45	0.10	0.13			
Basic	5,441.00						0.42	cum	5,876.28	**2,488.31**
add 8% Area wt	435.28									
Total	5,876.28									

KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cm thick, vibrated for all works in foundationfor footing ,pedestals ,retaining walls ,retern walls , walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, bed blocks, anchor blocks, and plinth etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 P.NO.13.I.NO.4.11

		1	1	4.85	0.45	0.15	0.33			
		1	2	1.20	0.45	0.15	0.16			
Basic	6,011.00						0.49	cum	6,491.88	**3,176.96**
Add 8% Area weightage	480.88									
Total	6,491.88									

KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 TMT Bar Fe 500 P.NO.17.I.NO.4.46.2

concrete qty.vide item no 6				0.49			31.81			
Basic	60,607.00						0.03	MT	65,455.56	**2,082.10**
Add 8% Area wt	4,848.56									
Total	65,455.56									

KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4.P.NO.25.I.NO.5.27.2

		1	1	4.80		3.5+3.2/2	16.08			
		1	1	2.65		3.50	9.28			
		1	1	2.65		3.30	8.75			
		1	2	0.20		3.50	1.40			
		1	1	4.80		0.20	0.96			
		1	1	2.70		0.20	0.54			
		1	1	1.00		0.20	0.20			
							37.20			
deduction for Rolling shutter		1	1	2.45		3.30	8.09			
							8.09			
Basic	831.00						29.12	sqm	897.48	**26,130.13**
Add 8% Area wt	66.48									
Total	897.48									

KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.cement mortor 1:6, P.NO.113.I.NO.15.20

Internal plastering										
		1	1	4.30		3.5+3.3/2	14.62			
		1	1	2.60		3.50	9.10			
		1	1	2.60		3.20	8.32			
External plastering										
		1	1	4.30		3.5+3.3/2	14.62			
	front	1	1	0.45		3.50	1.58			
		1	1	0.20		3.50	0.70			
	back	1	1	2.82		3.30	9.31			
	top	1	1	4.30		0.50	2.15			
		1	1	2.60		0.50	1.30			
Basic	208.00						61.69	sqm	224.64	**13,858.27**
Add 8% Area wt	16.64									
Total	224.64									

50mm dia M.S.Hallow pipes B class 14 gauge P.NO.X.SL.NO 286

		1	4	2.80			11.20			
							11.20			
					11.20	2.47kg/m	27.66	Kgs	60.00	**1,659.84**

PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 3 crest at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu alloy coating AZ150
gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.P.NO.291.I.NO.38.30

		1.00	1.00	5.00	2.82		14.10			
Basic	985.00						14.10	sqm	1063.80	**14,999.58**
Add 8% Area wt	78.80									
Total	1,063.80									

Mineral Fiber false ceiling Providing and laying of world class mineral acoustic ceiling panels of as per the following specification:- Tile of approved make Mineral Acoustic ceiling panels of size 595x595mm-12mm thick suitable for use in arrears up to 40 C and RH 70UR as per manufacturer. Tile have 15 min fire retardant and does not contain asbestos/urea formaldehyde, Technical details of New Modena are- Thermal conductivity Non-disposable, Light Reflection 80% fire resistance Non-resistance Non-disposable. Mineral fiber ceiling panels are placed inside the grid work. P,.NO 313 I.NO.39.12.1

		1.00	1.00	4.30	2.60		11.18			
Basic	2,100.00						11.18	sqm	2226.00	**24,886.68**
Add 8% Area wt	126.00									
Total	2,226.00									

KSRB 7.17 : Providing, fabricating, assembling and fixing in position aluminium doors using following aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness 3.18mm, section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top section 47.62x44.45mm thickness 3.00mm, section weight 1.426kg/m bottom section 114.3x44.45 thickness 3.18mm, section weight 2.646kg/m, door central section 46.91x44.45mm thickness 3.00mm, section weight 1.495 kg/m glazing clips 19x17.3x11mm thickness 0.9mm section weight 0.124kg/m; aluminium sections cut to length joint metred cornersgrinded, the shutters pivoted opening arrangement with heavy duty aluminium alloy automatic door closures floor mounted, providing and fixing standard approved accessories, such as aluminium handle for full width or length, tower bolts, lock, pivots: P.V.C. or rubber gasket with 5.5m. thick plain glass for top and bottom panel; aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherance of mortars or any other sticky materials; the assembled frame fitted with the corner angles, strips and fitted with screws, rawl plugs or teakwood gutties to R.C.C. columns or masonry on sides. beams and flooring in bottom. including cutting, chistling and making good with cement mortar to match the surface; all the frames throughly cleaned free from rust, scale, or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. section anodized to 12-15 micronsP.NO.37.I.NO.7.17.1

		1.00	1.00	2.55		2.40	6.12			
Basic	6,221.00						6.12	sqm	6718.68	**41,118.32**
Add 8% Area weightage	497.68									
Total	6,718.68								-	

Providing flooring with 60 cms.x 60 cms. size Vitrified glazed tiles of approved quality & make, fixed on top of existing flooring fixed with suitable adhesive, including cutting the tiles to the required size and fixing etc., complete. P.NO.107.I.NO.14.44

		1	1	4.80	2.60		12.48			
	skerting	1	2	4.80	0.15		1.44			
		1	1	2.60	0.15		0.39			
		1	1	1.00	0.15		0.15			
Basic	1,026.00						14.46	sqm	1,108.08	**16,022.84**
Add 8% Area wt	82.08									
Total	1,108.08									

KSRB 7.5 : Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m Specification No. KBS 7.10 / 7.12 P.NO.31.I.NO.7.5

		1	1	2.45		3.00	7.35			
Basic	2,862.00						7.35	sqm	3,033.72	**22,297.84**
Add 8% Area wt	171.72									
Total	3,033.72									

Providing and laying flooring using prepolished, water cut/ gang saw 19mm thick granite laid over bed of 20mm thick CM 1:4 and jointed with neat cement slurry mixed with pigments to match shade of granite slabs including laying of POP on finished surface and claning the surface including cost of all meterials and labour etc, complete as per specifications.using solver grey granite/multy red/ruby red/black/Hassan green granite of width not less than 1200mm, mm.P.NO.107.I.NO.14.47.1

	1	1	2.85	0.45		1.28			
	1	1	0.80	0.30		0.24			
	1	1	2.85	0.15		0.43			
	1	1	2.85	0.20		0.57			
2,619.00						2.52	sqm	2,828.52	**7,127.87**
209.52									
2,828.52									
Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade ... after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar ... matter cost of materials, labour, complete as per specifications, with primer .P.NO.117.I.NO.15.53.2									
item no9						61.69	sqm	85.32	**5,263.48**
79.00									
6.32									
85.32									
Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal ... give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, ... ver specifications.P.NO.120.I.NO15.74									
...0mm dia pipe									
	1.00	2.00	2.80	3.14x0.05		0.88			
	1.25	2.00	2.45		3.00	18.38			
82.00						19.25	sqm	88.56	**1,705.15**
6.56									
88.56									
...avated earth by private vehicle up to 15KMS including lead and lift loading unloading etc., complete.									
						6.65	cum	100.60	**668.99**
...storage tanks made of virgin polymer (LLDPE) with two layers outer Black or Blue and inner White layer of ... and make, conforming to I.S.I./ISO/SSI specifications. P.NO.258.I.NO.37.58									
	1.00	1.00	2000.00			2000.00			
6.00						2000.00	litre	6.48	**12,960.00**
0.48									
6.48									
...Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and ... including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. ...tting of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the ...testing of joints complete. (Concealed work including cutting chases and good the walls etc.)25MM DIA ...3									
	1.00	1.00	50.00			50.00			
250.00						50.00	M	270.00	**13,500.00**
20.00									
270.00									
Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 25mm ...cluding cost of all materials, labour and HOM of equipments with all leads complete as per specifications. ...IBS 13.2.6 / 13.3 P.NO.91.I.NO.13.34									
	1.00	3.00				3.00			
600.00						3.00	each	648.00	**1,944.00**
48.00									
648.00									
			R.O.Plant						
PUMP CRI1HP, VESSEL-1354 PENTAIR, PRESSURE ...NORMAL, MPV-1"NB FRONT FACE FILTER, HOUSING ...SPUN 20 JUMBO, PUMP CRI 2 -180-3, PT-8040 FRP ...MEMBRANE DOW 8040, CONTROLL PANNEL 1X3 (SUPER), ...METER 120-1680 ACRYLIC, ROTAMETER 400-2000 ACRYLIC, ...GAZE GLYSERINE - 21KG PANTHER, BRINE CON VALVE ...SHEET, LPS DENFOS, HPS DENFOS, DOSINGPUMP ...CHEEPS, ACTIVATED CARBON INDUSTRIAL, ANTI ...CHEMICAL, HANDLE VALVE, ASSEMBLING AND ...NING, TANK SS304 1000LTR						1.00	nos	500000.00	**500,000.00**
		ELECTRIFICATION WORKS							
...System: Supplying heavy gauge PVC conduit pipe .....dia confirming to IS 2509 with suitable size bends, plugs ...RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged ...heavy gauge saddles at an interval of 700mm using WF screws.a) 19/25 mm dia 2mm thick chaper -1 P.NO 2									
	1	1	50			50.00	mts	54.00	**2,700.00**

Supplying and flush mounting teak wooden box without front plank, made of not less than 15mm thick wood, after due groove cutting, necessary masonry patch work complete. d)8"x6"x3"(203x152x76mm) chaper-1 P.NO.44.I.NO 6.6.1										
		1	4				4.00	each	72.00	**288.00**
Point wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixied on the exisiting plastic sheet /gang box, the pther end of the wires shall be terminated with sufficient loose length in a wood/PVC round block.complete for each outlet. I. Point wiring using class A materials a) Short point upto 3Mtr from tapping point to out let via switch chaper-1 P.NO.5.I.NO 2.1.1										
		1	1				1.00	each	174.00	**174.00**
b) Medium point above 3Mtr upto 6Mtr from tapping pointr to out let viaswitch P.NO.5.I.NO 2.1.2										
		1	1				1.00	each	245.00	**245.00**
c)Long point above 6Mtr upto 10Mtr from tapping point to out let via switch P.NO.5.I.NO 2.1.3										
		1	4				4.00	each	363.00	**1,452.00**
Supplying 6A flush/projected type socket and a 6 amps flush/ projected type SP switch either surface/flush mounting in a exisiting gang box or in a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required. b) 6Amps 3/5 way chapter-1 p.no.15.i.no.3.1.1										
		1	1				1.00	each	127.00	**127.00**
Wiring for lighting/power circuit using one of FLRS PVC insulated 1100v grade, multis and CopperWITH LOW conductor single core cable in open or consealed system of wiring.I Group A Materials.a) 1.5 sqmm chapter no 1 p.no.6.i.no.2.5.1.										
		1	1	80			80.00	m	13.00	**1,040.00**
b)2.5Sqmm p.no.6.i.no.2.5.2										
		1	1	30			30.00	m	18.60	**558.00**
c) 4 sqmm p.no.6.i.no.2.5.3										
		1	1	160			160.00	m	29.20	**4,672.00**
Supplying and fixing phylum brand hand plastic sheet 4mm thick with necessary niches for fixing switches, regulators etc., and fixing on exisiting wood or metal box using N.F.screws P.NO.17.I.NO.3.9										
		1	1	1500			1,500	sqm	0.25	**375.00**
Supplying and fixing pbbc bakelight stright or slant batton holderand wiring within 60v/230volts lamp group A chapter -2 p.no.20.i.no.4.2										
		1	4				4.00	each	88.00	**352.00**
Supply patti type tube light fittings of 4'-28 watts fluorescent tube fittings made out of Ms sheet ans stove enameled with low loss open construction copper wound ferromagnetic ballast starter ,locking type brass contact holders mounted on double fold type sheet base fully wired for use on 230 volts AC supply including t5 lamp p.no.20 i.no.4.6										
		1	2				2.00	each	699.00	**1,398.00**
Supply wall mountaing fan suitable to operate of single phase -230v A.C supply 400mm sweep a.group A chapter 3 p.no.78.i.no.9.4.2										
		1	1				1.00	each	2,534.00	**2,534.00**
Supplying decorative horizontal type street light fluorocent fitting weather and water proof complete complete with energy saving electronoc ballast etc., locking type brass contact holders with one number of 4ft 40watt flourcent tube completely wired for use on 230/250volts 50cycles AC supply with opel reeded parspex cover of bottom complete fitting 1x4'-28watts chapter -3 p.no.21.i.no.4.10.1										
		1	1				1.00	each	1,866.00	**1,866.00**
SUPPLING OF 2 PIN/4PIN 18W CFL LAMP p.no.30.i.no.4.38.18										
		1	2				2.00	each	120.00	**240.00**
Supply and fixing polished wood board made of not less than 15mm thick plank on both sides with plank made out of not more than 2 pices and fixing the same to the wall using tapered inverted woode plug screws etc., a) 20"x20"2.5" chapter 3 p.no.44.i.no.6.6.6										
		1	2				2.00	each	302.00	**604.00**
Supplying and fixing of Procelain fuse channel with cut out on exisiting wooden/panel using necessary nuts, bolts and washers etc., complete.a) 32Amps champter 5 p.no.45.i.no.6.7.2										
		1	6				6.00	each	180.00	**1,080.00**
Supply of an load charge over switches 4poles 415v 50Hz A.C supply with AC23A duty a) up to 63amps Groups A chapter 5 p.no.45.i.no.6.11.1										
		1	1				1.00	each	4,892.00	**4,892.00**
Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and C type curve indicator ON/OFF Energy cross 3 with short circuit breaking capacity of 10K and complete wiring as required. e)5-63amps TPN . Group A chapter 5 p.no.47.i.no.6.16.6										
5-63amps TPN		1	1				1.00	each	1,936.00	**1,936.00**
5-63amps TPN p.no.47.i.no.6.16.5										
		1	3				3.00	each	1,547.00	**4,641.00**
Supplying fixing and wiring Electronic10 to 40 amps Three phase 4wire class -1 Accuracy energy meter Group A chapter 5 p.no.48.i.no.6.33										
		1	1				1.00	each	4,900.00	**4,900.00**

Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proprotion of salt and charcoal filling around the pipe to complete depth. the connection form the pipe to the conduit etc, is to be established through GI wire as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 drought holes of 12mm dia.chapter 9.p.no.55.i.no.7.1										
		1	1	2.00			2.00	NO	2,727.00	**5,454.00**
Supplying and running of GI/Copper strips for grounding connections using necessary fixing material as required GI strip 50mm chapter 9 p.no.55.i.no 7.3.1										
		1	1	15.00			15.00	mtrs	77.00	**1,155.00**
Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable.d) 4 core 16 sqmm chapter 9.p.no.55.i.no.7.4.4										
		1	1	40.00			40.00	mtrs	140.40	**5,616.00**
Labour charges for lying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall or cable as required. I. In existing trench/duct.a) 6 sqmm to 16 sqmm chapter 9.p.no.61.i.no.7.8.2a										
		1	1	30.00			30.00	mtrs	16.20	**486.00**
Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (SP:43(PB I-7.9.1.1, P-62).a) In soil (ordinary)										
		1	1	30.00			30.00	MTS	117.00	**3,510.00**
Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. a) 40mm chapter 9.p.no.62.i.no.7.12.1										
		1	1	8.00			8.00	mtrs	345.00	**2,760.00**
Supplying &fixing L.T.cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers ect.b) 16 Sqmm chapter 9.p.no.62.i.no.7.13.2										
		1	1				1.00	each	280.00	**280.00**
Providing BESCOM deposits excuding ESCOM 3 pahse energy meter (as per intimation letter from BESCOMS) for 10hp 3phase power supply under LT-5 tariff.								L.S		**5,000.00**
BOREWELL										
Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pumps, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 3" meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer supposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction ***(P.47, I. 9.4) PRED.SR 2012-13***										
Basic Rate	1882									
Spvsn Wt 3%	56.46									
Total	1938.46									
		1						1	1938.46	**1938.46**
Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) Page no. 46 / ***I. 9.1 PRED SR 2012-13***										
Basic Rate	306									
Spvsn Wt 3%	9.18									
Total	315.18									
0 to 50 m		1	50.00					50.00	315.18	**15759.00**
Basic Rate	400									
Spvsn Wt 3%	12									
Total	412									
50 to 100 m		1	50.00					50.00	412.00	**20600.00**
Basic Rate	445									
Spvsn Wt 3%	13.35									
Total	458.35									
100 to 150 m		1	50.00					50.00	458.35	**22917.50**
Basic Rate	470									
Spvsn Wt 3%	14.1									
Total	484.1									
150 to 200 m		1	50.00					50.00	484.10	**24205.00**
Basic Rate	544									
Spvsn Wt 3%	16.32									
Total	560.32									
200 to 250 m		1	50.00					50.00	560.32	**28016.00**
Basic Rate	583									
Spvsn Wt 3%	17.49									

Total	600.49									
251 to 300 m		1	50.00					50.00	600.49	30024.50
Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) **SE PRED III NO 84**										
	Rmtr	1	54.00					54.00	1325.00	71550.00
Providing 250mm dia PVC Pipe **BWSSB SR 14-15 PNO 53SL NO 1**										
	Rmtr									
		1	12.00					12.00	1064.00	12768.00
Providing 175mm dia ms casing cap **page no 111 it no 85 pred 12-13 sr**										
Basic Rate	100.00									
Area Wt 3%	3.00									
Total	103.00									
	no	1						1.00	103.00	103.00
Providing MS Casing pipe collars **page no 111 it no 86 pred 12-13 sr**										
Basic Rate	150.00									
Area Wt 3%	4.50									
Total	154.50									
		1	6.00					6.00	154.50	927.00
Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / **Atalanta** / Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings . PAGE NO **XXXXII**											
15 HP 30 Stage	NO	1						1	70600.00	70600.00
KSRB13-3.1: Providing and fixing to wall celling and floor glavanised/ mild steel tubes (medium grade 1.27 kg /mt) B class **50 mm dia** nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. **(Page 90 ITEM NO 13.6)**										
Basic Rate	510.00									
Area Weightage @6%	30.60									
Total	**540.60**									
	Mtr	1	300.00					300.00	540.60	162180.00
Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and Powder coated extrued PVC sheathed suitable for working voltage upto 1100 Volts as per IS - 694 ; 1990 AND CONFORMING TO gtp OFGROUP A P. No. 12/ I No. (2.10.4) 3cx 6.0 Sqm **KPWD Electrical SR 2014-15**										
	Mtr	1	620.00					620.00	188.70	116994.00
Labour charges for erection of new/ repaired submersible pumpset along with gi pipes inculding transportion each length **pno 558 ino 3 bwssb sr 14-15**										
	NO	1	50.00					50	88.00	4400.00
Supplying and flush polished wood board with out front frount plank made of not less than 15mm thick plank after due groove cutting Finishing with necessary o **n fixing the same to the wall using tapered** inverted wooden plugs screws etc., **P No. 44No.6.6.6 KPWD Electrical SR 2014-15**										
20x20x2.5	Each	1						1	302.00	302.00
Supplying of 1.1 KV LT UG cable having aluminium condutor PVC insulated shethed, EXTREDED INNER SHEATHRD galvnised steel,stirp confirming IS 3975;1990 AND extruded PVC outer sheathing armoured cable IS 1554 part 1;1998 and confirming to GTP of group. **P No.55/ I No.7.4.4 (4 core 16 Sqmm) KPWD Electrical SR 2014-15**										
	Mtr	1	35.00					35.00	140.40	4914.00
Labour charges for laying of 1.1 K.V class UG cable, **P No. 61 / I No. 7.8.1 In existing trencg/duct 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15**										
	Mtr	1	35.00					35.00	10.80	378.00
Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete **P No. 62/ I. No.7.9.4 KPWD Electrical SR 2014-15**										
For Cutting Road Surface aspalt	Mtr	1	30.00					30.00	117.00	3510.00
Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class **P. No. 62/ I No.7.12.1 KPWD Electrical SR 2014-15**										
40mm dia GI pipe	Mtr	1	3.00					3.00	345.00	1035.00

Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No.62/ I No. 7.13.2 KPWD Electrical SR 2014-15**										
16Sqmm	NO	1						1.00	280.00	280.0
Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, **(P No.55, I No. 7.1) KPWD Electrical SR 2014-15**										
	NO	1						1	2727.00	2727.0
Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete…. **P No44/I No 6.7.4 KPWD Electrical SR 2014-15**										
100 Amps	Each									
	1	3				3	360.00	1080.00		
Supplying and fixing of heavy duty glands for ug cable 1.1 kv etc., complete…. **P No62 I No 7.14.2 KPWD Electrical SR 2014-15**										
25mm dia	Each									
	1	6								
	1	6						6	86.00	516.00
								6	86.00	516.00
Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 32 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications **pno 47 IT 6.16.5 KPWD Electrical SR 2014-15**										
	Each	1						1	1547.00	1547.00
Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 **P.No. 49, I. No.6.40.2 KPWD Electrical SR 2014-15**										
16SWG	Sq.Cm	2	220.00	60.00				26400.00		
		1	450.00	25.00				11250.00		
								37650.00	0.33	12424.50
KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 **Page No.90 Item No. 13.55 / PWD SR 2016-17**										
Basic Rate	1496.00									
Area Wt@ 6%	89.76									
Total	**1585.76**									
	NOS	1						1	1585.76	1585.76
Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. **P. No.92/ I. No. 13.81.3 PWD SR**										
Basic Rate	215.00									
Area Wt@ 6%	12.90									
Total	**227.90**									
50mm dia	NOS	1	2					2	227.9	455.8
Gate value 50 mm nominal bore gun metal **P. No.xxiii sl No. 673 PWD SR**										
50mm dia	NOS	1	3.00					3	1650.00	4950.00
NIPPLE 50 mm nominal bore gun metal **P. No.xxXIXiii FITTINGS PWD SR**										
50mm dia	NOS	1						1	104.30	104.30
R BEND 50 mm nominal bore gun metal **P. No.xxXIXiii FITTINGS PWD SR**										
50mm dia	NOS	1	3.00					3	219.00	657.00
TEE 50 mm nominal bore gun metal **P. No.xxXIXiii FITTINGS PWD SR**										
50mm dia	NOS	1						1	169.00	169.00
Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. APPROVED **Bangalore Circle SE Approved Date 30.07.2010 15HP to 30 HP Star Delta Starter**										
	NO	1						1	10000.00	10000.00

Earth work excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, in ordinary soil, exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications . **(P.No.5, I.No.2.1) (SR of PWD)**										
		1	230.00	0.60	0.75	103.50				
Basic Rate	157.00									
Area Wt@ 6%	9.42									
Total	**166.42**			Per Cmtr				**103.50**	166.42	**17224.00**
Providing and installing at site of work pvc pipes including cost of pipes and special and labour including lowering into trenches laying true to line level and prefect linking at joints, leak proof including jointing of approved type with all labour and lift charges handling charges including encasing the pipes all round to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete PVC pipe of 6kg/cm2 63mm (0.662) (Page no.14, Item No.3.4.2 a) (SR of PRED)										
		1	230.00			230.00				
Basic Rate	112.00									
Area Wt 3%	3.36			Per Rmtr				**230.00**	115.36	**26533.00**
Total	**115.36**									
KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications Specification No.KBS 2.1 **.(Page No.6, Item No. 2.10)**										
Basic Rate	127.00			Per Cmtr				**103.50**	95.40	**9874.00**
Area Wt@ 6%	7.62									
Total	**134.62**									
BESCOM Deposit		1						1	12000.00	**12000.00**
							SUB TOTAL		RS.	1499932.39
							FOR 9 NO			13499391.52
									Miscellaneous & Rounding off	608
									Grand total	13500000

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-2017.and Data Rates

Assistant Engineer,
Yelahanka Project Division

Asst. Exec. Engineer
Yelahanka Project Division

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Executive Engineer
Yelahanka Project Division

Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Administrative Approval
Accorded For 135.00 Lakhs
Head of A/C P.3119
CER NO :126 Dt:16/2/18.

E.E. (Project) 16/2

Technical Sanction
Accorded For 135.00 lakhs Rs.
Head of A/C P.3119
CER NO :247 Dt:.. 10/10/17

[TA] CE (YNK)